

*****STN Columbus *****

FILE 'HOME' ENTERED AT 09:04:49 ON 29 FEB 2000

=> file medline

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.15 0.15

FILE 'MEDLINE' ENTERED AT 09:04:54 ON 29 FEB 2000

FILE LAST UPDATED: 18 FEB 2000 (20000218/UP). FILE
COVERS 1960 TO DATE.

OLD MEDLINE, data from 1960 through 1965 from the Cumulated
Index
Medicus (CIM), has been added to MEDLINE. See HELP
CONTENT for details.

Left, right, and simultaneous left and right truncation are available in
the
Basic Index. See HELP SFIELDS for details.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY
AND ACCURATE
SUBSTANCE IDENTIFICATION.

=> serum free media or serum free medium/ab,bi

SERUM IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the
system.

For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s serum free media or serum free medium/ab,bi

'AB' IS NOT A VALID FIELD CODE

436337 SERUM
316301 FREE
158605 MEDIA

926 SERUM FREE MEDIA
(SERUM(W)FREE(W)MEDIA)

0 SERUM FREE MEDIUM/AB

436337 SERUM/BI

316301 FREE/BI

158635 MEDIUM/BI

5075 SERUM FREE MEDIUM/BI

(SERUM(W)FREE(W)MEDIUM/BI)

L1 5870 SERUM FREE MEDIA OR SERUM FREE
MEDIUM/AB,BI

=> s l1 and embryonic/ab,bi

'AB' IS NOT A VALID FIELD CODE

0 EMBRYONIC/AB

45970 EMBRYONIC/BI

L2 248 L1 AND EMBRYONIC/AB,BI

=> s l1 and embryonic stem/ab,bi

'AB' IS NOT A VALID FIELD CODE

0 EMBRYONIC STEM/AB

45970 EMBRYONIC/BI

85739 STEM/BI

1897 EMBRYONIC STEM/BI

(EMBRYONIC(W)STEM/BI)

L3 2 L1 AND EMBRYONIC STEM/AB,BI

=> d l - bib ab

YOU HAVE REQUESTED DATA FROM 2 ANSWERS -
CONTINUE? Y(N)?

L3 ANSWER 1 OF 2 MEDLINE

AN 199370092 MEDLINE

DN 99370092

TI BMP-4 inhibits neural differentiation of murine

embryo cells.

stem

AU Finley M F, Devata S, Huettner J E

CS Department of Cell Biology and Physiology and Program in
Neuroscience,

Washington University Medical School, 660 South Euclid Avenue,
St. Louis,
Missouri 63110, USA.

NC NS30888 (NINDS)

SO JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 (3) 271-87.

Journal code: JAM. ISSN: 0022-3034.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200002

EW 20000204

AB Members of the transforming growth factor-beta superfamily,
including bone

morphogenetic protein 4 (BMP-4), have been implicated as

regulators of

neural and glial differentiation. To test for a possible role of

BMP-4

in early mammalian neural specification, we examined its effect on

neurogenesis in aggregate cultures of mouse ***embryonic***

stem (ES) cells. Compared to control aggregates, in

which up to

20% of the cells acquired immunoreactivity for the neuron-specific

antibody TuJ1, aggregates maintained for 8 days in ***serum***

free ***medium*** containing BMP-4 generated 5-

to 10-fold

fewer neurons. The action of BMP-4 was dose dependent and
restricted to
the fifth through eighth day in suspension. In addition to the
reduction
in neurons, we observed that ES cell cultures exposed to BMP-4

contained
fewer cells that were immunoreactive for glial fibrillary acidic

protein

or the HNK-1 neural antigen. Furthermore, under phase contrast,

cultures

prepared from BMP-4-treated aggregates contained a significant

proportion

of nonneuronal cells with a characteristic flat, elongated

morphology.

These cells were immunoreactive for antibodies to the intermediate

filament protein vimentin; they were rare or absent in control

cultures.

Treatment with BMP-4 enhanced the expression of the early

mesodermal genes

brachyury and tbx6 but had relatively little effect on total cell

number

or cell death. Coapplication of the BMP-4 antagonist noggin

counteracted

the effect of exogenous BMP-4, but noggin alone had no effect on

neutralization in either the absence or presence of retinoids.

Collectively, our results suggest that BMP-4 can overcome the

neutralizing

action of retinoic acid to enhance mesodermal differentiation of

murine ES

cells. Copyright 1999 John Wiley & Sons, Inc.

L3 ANSWER 2 OF 2 MEDLINE

AN 93191693 MEDLINE

DN 93191693

TI Fibroblast growth factor-mediated growth regulation and receptor

expression in embryonal carcinoma and ***embryonic***

stem

cells and human germ cell tumours.

AU Mummery C L, van Rooyen M, Bracke M, van den Eijnden-van

Raaij J, van

Zoelen E J, Alitalo K

CS Hydracht Laboratory, Netherlands Institute for Developmental

Biology,

Utrecht

SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH

COMMUNICATIONS, (1993 Feb 26) 191 (1)

188-95.

Journal code: 9Y8. ISSN: 0006-291X

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; Cancer Journals

EM 199306

AB FGFs have been implicated in the induction of mesoderm in

amphibian

development and are present in the mouse embryo at stages that

would be

appropriate for a similar function in mammals. Primitive ectoderm would then be the target tissue. We have now changes in the expression of receptors for FGFs during the differentiation of embryonal carcinoma (EC) and ***embryonic*** ***stem*** (ES) cells from the mouse. These cells resemble those of the inner cell mass and later primitive ectoderm. On Northern blots of mRNA from undifferentiated cells, transcripts for FGF R1, R2 and R3 are expressed. All are upregulated during differentiation of ES cells and are upregulated or remain constant as EC cells differentiate. FGF R4 is only expressed after differentiation to derivatives resembling parietal endoderm. By contrast in human EC cells, FGF R2 is downregulated during differentiation, FGF R1 and FGF R3 are unchanged and FGF R4 is expressed before and after differentiation. In both human and mouse EC cells three members of the FGF family (a FGF, b FGF and k FGF, also known as FGFs 1,2 and 4) are mitogenic in ***serum*** - ***free*** ***medium*** and one (KGF or FGF 7) appears to have no effect on growth although cellular morphology is altered. Differences between mouse cells are primarily in the effects of heparin on the FGF-induced response.

=> file medline embase biosis inpadoc caplus

COST IN U.S. DOLLARS ENTRY SESSION SINCE FILE TOTAL
FULL ESTIMATED COST 1.58 1.73

FILE 'MEDLINE' ENTERED AT 09:07:07 ON 29 FEB 2000

FILE 'EMBASE' ENTERED AT 09:07:07 ON 29 FEB 2000

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FILE 'BIOSIS' ENTERED AT 09:07:07 ON 29 FEB 2000

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FILE 'INPADOC' ENTERED AT 09:07:07 ON 29 FEB 2000

COPYRIGHT (C) 2000 European Patent Office, Vienna (EPO)

FILE 'CAPLUS' ENTERED AT 09:07:07 ON 29 FEB 2000

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=> d his

(FILE 'HOME' ENTERED AT 09:04:49 ON 29 FEB 2000)

FILE 'MEDLINE' ENTERED AT 09:04:54 ON 29 FEB 2000
L1 5870 S SERUM FREE MEDIA OR SERUM FREE MEDIUM/AB,BI
L2 248 S L1 AND EMBRYONIC/AB,BI
L3 2 S L1 AND EMBRYONIC STEM/AB,BI

FILE 'MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS' ENTERED AT 09:07:07 ON 29 FEB 2000

=> s l3

'AB' IS NOT A VALID FIELD CODE
'AB' IS NOT A VALID FIELD CODE
'AB' IS NOT A VALID FIELD CODE
L4 15 L3

=> dup rem l4

PROCESSING COMPLETED FOR L4
L5 8 DUP REM L4 (7 DUPLICATES REMOVED)

=> d l- bib ab

YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y(N)?

L5 ANSWER 1 OF 8 MEDLINE DUPLICATE 1
AN 199370092 MEDLINE
DN 99370092
TI BMP-4 inhibits neural differentiation of murine ***embryonic*** cells
AU Finley M F; Devata S; Huettner J E
CS Department of Cell Biology and Physiology and Program in Neuroscience, Washington University Medical School, 660 South Euclid Avenue, St. Louis, Missouri 63110, USA.
NC NS30888 (NINDS)
SO JOURNAL OF NEUROBIOLOGY, (1999 Sep 5) 40 (3) 271-87.
Journal code: JAM. ISSN: 0022-3034.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200002
EW 20000204
AB Members of the transforming growth factor-beta superfamily, including bone morphogenetic protein 4 (BMP-4), have been implicated as

regulators of neuronal and glial differentiation. To test for a possible role of BMP-4 in early mammalian neural specification, we examined its effect on neurogenesis in aggregate cultures of mouse ***embryonic*** ***stem*** (ES) cells. Compared to control aggregates, in which up to 20% of the cells acquired immunoreactivity for the neuron-specific antibody TuJ1, aggregates maintained for 8 days in ***serum*** ***free*** ***medium*** containing BMP-4 generated 5- to 10-fold fewer neurons. The action of BMP-4 was dose dependent and restricted to the fifth through eighth day in suspension. In addition to the reduction in neurons, we observed that ES cell cultures exposed to BMP-4 contained fewer cells that were immunoreactive for glial fibrillary acidic protein or the HNK-1 neural antigen. Furthermore, under phase contrast, cultures prepared from BMP-4-treated aggregates contained a significant proportion of nonneuronal cells with a characteristic flat, elongated morphology. These cells were immunoreactive for antibodies to the intermediate filament protein vimentin; they were rare or absent in control cultures. Treatment with BMP-4 enhanced the expression of the early mesodermal genes brachyury and tbx6 but had relatively little effect on total cell number or cell death. Coapplication of the BMP-4 antagonist noggin the effect of exogenous BMP-4, but noggin alone had no effect on neuralization in either the absence or presence of retinoids. Collectively, our results suggest that BMP-4 can overcome the neutralizing action of retinoic acid to enhance mesodermal differentiation of murine ES cells. Copyright 1999 John Wiley & Sons, Inc.

L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2000 ACS
AN 1998:75491 CAPLUS
DN 128:163162

TI ***Embryonic*** ***stem*** cells as a model for studying regulation of cellular differentiation
AU Dinsmore, J.; Radliff, J.; Jacoby, D.; Wunderlich, M.; Lindberg, C.
CS Diacrin, Inc., Charlestown, MA, USA
SO Theriogenology (1998), 49(1), 145-151
CODEN: THGNBO; ISSN: 0093-691X
PB Elsevier Science Inc.
DT Journal
LA English
AB Mouse ***embryonic*** ***stem*** (ES) cells can be

differentiated in vitro into near homogeneous populations of both neurons and skeletal muscle as well as other cell types. The authors previously showed that treatment of pluripotent ES cells with retinoic acid (RA) induced differentiation into highly enriched populations of gamma-aminobutyric acid (GABA) expressing neurons. The reasons for generation of only GABA neurons as opposed to other neuronal cell types were not known. The authors have extended their previous work and now show that with RA induction of ES cells they not only obtain GABA neurons, but also dopaminergic neurons. Crit. for the prodn. of dopaminergic neurons after RA induction was the post-induction plating conditions used. No dopaminergic neurons were detected if cells were plated in ***serum*** - ***free*** - ***media*** optimized for neuronal survival. However, significant nos. of dopamine neurons could be detected when cells were plated in media conig. fetal calf serum. These observations support the conclusion that RA acts as a general neural inducing agent and that conditions post-induction either selectively support survival of a particular class of neuronal cells or that the conditions post-induction actually further instruct cells to differentiate into different types of neurons.

L5 ANSWER 3 OF 8 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1997:135574 BIOSIS
DN PREV199799434777
TI TEC-1 characterisation of porcine embryonic cells from day 11 embryonic discs cultured in ***serum*** - ***free*** - ***medium***

AU Booth, P. J. (1); Perreau, C.; Hochereau-De Reviers, M. T.
CS (1) Embryo Technol. Cent., Dan. Inst. Anim. Sci., DK-8830 Tjele Denmark
SO Theriogenology, (1997) Vol. 47, No. 1, pp. 240.
Meeting Info.: Annual Conference of the International Embryo Transfer Society Nice, France January 12-14, 1997
ISSN: 0093-691X
DT Conference; Abstract; Conference
LA English

L5 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1996:495890 BIOSIS
DN PREV199699218246
TI Neuronal induction of ***embryonic*** - ***stem*** cells in ***serum*** - ***free*** - ***medium***

AU Finley, M. F. A.; Devata, S.; Huettner, J. E.
CS Dep. Cell Biol. Physiol., Washington Univ., St. Louis, MO 63110 USA
SO Society for Neuroscience Abstracts, (1996) Vol. 22, No. 1-3, pp. 521.
Meeting Info.: 26th Annual Meeting of the Society for Neuroscience Washington, D.C., USA November 16-21, 1996
ISSN: 0190-5295.
DT Conference
LA English

L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2000 ACS
AN 1995:291533 CAPLUS
DN 122:78816
TI The effects of leukemia inhibitory factor (LIF) on cell multiplication and locomotion in human teratocarcinoma cells
AU Granerus, Marika; Bierke, Peer; Engstrom, Wilhelm
CS Department Pathology, Swedish University Agricultural Sciences, Uppsala, S-750 07, Sweden
SO Int. J. Oncol. (1994), 5(6), 1419-23
CODEN: IJONES; ISSN: 1019-6439
DT Journal
LA English
AB The human teratocarcinoma cell line (Tera 2) could be stimulated to a moderate increase in cell no. in ***serum*** - ***free*** - ***medium*** by addn. of 5 ng leukemia inhibitory factor (LIF)/mL. However this effect was only obsd. in short term (24 h) cultures. By comparing cell nos. with thymidine incorporation data and proportion intact cell nuclei, we concluded that this short term increase in cell no. was due to enhanced cell survival rather than a real increase in the proportion of cells traversing the cell cycle. When increased LIF were added a preferential effect on clonal cell locomotion was obsd. Fifty-200 ng of LIF stimulated cell movement but exerted no effect on Tera 2 cell proliferation at any time interval studied.

L5 ANSWER 6 OF 8 MEDLINE DUPLICATE 2
AN 93191693 MEDLINE
DN 93191693
TI Fibroblast growth factor-mediated growth regulation and receptor expression in embryonal carcinoma and ***embryonic*** - ***stem*** cells and human germ cell tumours.
AU Murnery C L, van Rooyen M; Bracke M; van den Eijnden-van Raaij J, van Zoelen E J; Alltalo K
CS Hubrecht Laboratory, Netherlands Institute for Developmental

Biology, Utrecht
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1993 Feb 26) 191 (1) 188-95
Journal code: 9Y8. ISSN: 0006-291X
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199306
AB FGFs have been implicated in the induction of mesoderm in amphibian development and are present in the mouse embryo at stages that would be appropriate for a similar function in mammals. Primitive ectoderm then be the target tissue. We have now changes in the expression of receptors for FGFs during the differentiation of embryonal carcinoma (EC) and ***embryonic*** - ***stem*** (ES) cells from the mouse. These cells resemble those of the inner cell mass and later primitive ectoderm.
On Northern blots of mRNA from undifferentiated cells, transcripts for FGF R1, R2 and R3 are expressed. All are upregulated during differentiation of ES cells and are upregulated or remain constant as EC cells differentiate.
FGF R4 is only expressed after differentiation to derivatives resembling parietal endoderm. By contrast in human EC cells, FGF R2 is downregulated during differentiation, FGF R1 and FGF R3 are unchanged and FGF R4 is expressed before and after differentiation. In both human and mouse EC cells three members of the FGF family (a FGF, b FGF and k FGF, also known as FGFs 1,2 and 4) are mitogenic in ***serum*** - ***free*** - ***medium*** and one (KGF or FGF 7) appears to have no effect on growth although cellular morphology is altered. Differences between human and mouse cells are primarily in the effects of heparin on the FGF-induced response.

L5 ANSWER 7 OF 8 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1993:344651 BIOSIS
DN PREV199396041651
TI The activin A-dependent proliferation of PCC3/A1 embryonal carcinoma cells in ***serum*** - ***free*** - ***medium***.
AU Atsumi, Tadao (1); Miwa, Yoko; Eto, Yuzuru; Sugino, Hiromu; Kusakabe,

Moriaki, Kitani, Hiroshi, Ikawa, Yoji (1)
 CS (1) Lab. Mol. Oncol., Tsukuba Life Sci. Cent., Inst. physical and
 Chemical Res., 3-1-1, Koyadai, Tsukuba 305 Japan
 SO Development Growth & Differentiation, (1993) Vol. 35, No. 1,
 pp. 81-87.
 ISSN: 0012-1592.
 DT Article
 LA English
 AB Examination of the growth requirements of murine embryonal
 carcinoma cells
 (EC cells) or ***embryonic*** cells (ES cells)
 in ***serum***. ***free*** ***medium*** revealed that
 POC3 EC cells
 required activin A to grow and/or survive in such medium. In the
 absence
 of activin A, POC3 cells began to disintegrate within 3 days under
 any
 serum-free conditions examined. P19 and AT805 EC cells grew
 even in
 serum. ***free*** ***medium*** without activin
 A but their
 growth rates were slightly facilitated by its addition. F9 EC cells
 also
 grew in the medium without activin A and its addition somewhat
 inhibited
 their growth rate. Three independently isolated ES cell lines and
 feeder-dependent PSA-1 EC cells also grew in ***serum***.
 free
 (LIF) was
 supplemented. The addition of activin A had little effect on their
 growth.
 rates. These findings suggest that POC3 EC cells are a sort of
 nutritional
 mutant requiring activin A, thus making them useful in studies on
 the
 growth regulatory mechanisms of EC/ES cells and/or the action of
 activin
 on EC/ES cells.

L5 ANSWER 8 OF 8 BIOSIS COPYRIGHT 2000 BIOSIS
 DUPLICATE 3
 AN 1986:438581 BIOSIS
 DN BA87:104769
 TI PARTIAL EXPRESSION OF MONOAMINERGIC
 SEROTONINERGIC PROPERTIES BY THE
 MULTIPOTENT HYPOTHALAMIC CELL LINE F-7 AN
 EXAMPLE OF LEARNING AT THE
 CELLULAR LEVEL.
 AU DE VITRY F; CATELON J; DUBOIS M; THIBAUT J;
 BARRITAULT D; COURT Y;
 BOURGOIN S; HAMON M
 CS NEUROENDOCRINOL. CELLULAIRE MOLECULAIRE,
 COLL. FRANCE, 11 PLACE MARCELIN
 BERTHELOT, 75231 PARIS, CEDEX 05, FRANCE.
 SO NEUROCHEM INT, (1986) 9 (1), 43-54.

CODEN: NEUIDS. ISSN: 0197-0186.
 FS BA; OLD
 LA English
 AB A ***serum***. ***free*** ***medium***
 supplemented with a
 glial conditioned medium, a brain extract from 8-to 10-day-old
 mice,
 hormones, and eye-derived growth factor has been devised which
 permitted
 the mouse primitive hypothalamic nerve cell line F7 to express
 some
 biochemical properties typical of monoaminergic neurons. Maximal
 expression was obtained when the culture conditions were applied
 for 2
 days. Most (90-95%) cells then synthesized [3H]serotonin from
 [3H]5-hydroxytryptophan (but not from [3H]tryptophan). No
 synthesis was
 detected in the presence of carbodopa (20 .mu.M), therefore
 suggesting the
 involvement of L-aromatic-amino-acid decarboxylase in this
 process. In
 addition, F7 cells cultured in such ***serum***. ***free***
 medium exhibited the capacity of accumulating
 exogenous serotonin
 by a ouabain-sensitive mechanism. These data further supported
 that active
 molecules in the cell environment can induce, in a primitive cell
 line,
 some of the enzymatic activities associated with monoaminergic
 neurons.
 Since other well-defined culture conditions can promote the
 differentiation of the same clone into oligodendrocytes (De Vitry et
 al.,
 1983), it can be concluded that the F7 cell has the properties of an
 embryonic ***stem*** cell of the CNS which,
 depending on
 external signals, may switch into different alternative
 developmental
 neural pathways. We postulate that the stabilization of neuron-like
 properties due to repetitive cell stimulation by active signals in the
 environment may represent an example of learning at the cellular
 level.

=> s without serum or (absence (2a) serum)(ab,bi
 'AB' IS NOT A VALID FIELD CODE
 'AB' IS NOT A VALID FIELD CODE
 'AB' IS NOT A VALID FIELD CODE
 L6 9506 WITHOUT SERUM OR (ABSENCE (2A)
 SERUM)(AB,BI
 => s 16 and embryonic stem/ab,bi
 'AB' IS NOT A VALID FIELD CODE
 'AB' IS NOT A VALID FIELD CODE
 'AB' IS NOT A VALID FIELD CODE
 'AB' IS NOT A VALID FIELD CODE

L7 10 L6 AND EMBRYONIC STEM/AB,BI
 => dup rem 17
 PROCESSING COMPLETED FOR L7
 L8 3 DUP REM L7 (7 DUPLICATES REMOVED)
 => d 1-bib ab
 YOU HAVE REQUESTED DATA FROM 3 ANSWERS -
 CONTINUE? Y(N):y

L8 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
 AN 1999272671 MEDLINE
 DN 99272671
 TI PTEN modulates cell cycle progression and cell survival by
 regulating
 phosphatidylinositol 3,4,5-trisphosphate and Akt/protein kinase B
 signaling pathway.
 AU Sun H; Lesche R; Li D M; Liliental J; Zhang H; Gao J;
 Gavrilova N; Mueller
 B; Liu X; Wu H
 CS Department of Genetics, Yale University School of Medicine,
 333 Cedar
 Street, New Haven, CT 06520, USA.
 NC CAT2878 (NCI)
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF
 SCIENCES OF THE UNITED STATES OF
 AMERICA, (1999 May 25) 96 (11) 6199-204.
 Journal code: PV3. ISSN: 0027-8424.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Cancer Journals
 EM 199908
 EW 19990804
 AB To investigate the molecular basis of PTEN-mediated tumor
 suppression, we
 introduced a null mutation into the mouse Pten gene by
 homologous
 recombination in ***embryonic*** ***stem*** (ES) cells.
 Pten-/- ES
 cells exhibited an increased growth rate and proliferated even in the
 absence of ***serum***. ES cells lacking PTEN
 function also
 displayed advanced entry into S phase. This accelerated G1/S
 transition
 was accompanied by down-regulation of p27(KIP1), a major
 inhibitor for G1
 cyclin-dependent kinases. Inactivation of PTEN in ES cells and in
 embryonic fibroblasts resulted in elevated levels of
 phosphatidylinositol
 3,4,5-trisphosphate, a product of phosphatidylinositol 3 kinase.
 Consequently, PTEN deficiency led to dosage-dependent increases
 in
 phosphorylation and activation of Akt/protein kinase B, a

well-characterized target of the phosphatidylinositol 3 kinase signaling pathway. Akt activation increased Bad phosphorylation and promoted PTEN/- cell survival. Our studies suggest that PTEN regulates the phosphatidylinositol 3, 4, 5-trisphosphate and Akt signaling pathway and consequently modulates two critical cellular processes: cell cycle progression and cell survival.

L8 ANSWER 2 OF 3 MEDLINE DUPLICATE 2
AN 200007708 MEDLINE
DN 2007708
TI Culture of human embryos for studies on the derivation of human pluripotent cells: a preliminary investigation.
AU Lavoie M C; Conaghan J; Pedersen R A
CS Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco 94143-0720, USA.
SO REPRODUCTION, FERTILITY, AND DEVELOPMENT, (1998) 10 (7-8) 557-61.
Journal code: RAI. ISSN: 1031-3613.

CY Australia
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200004
EW 20000402
AB Several different culture conditions were evaluated for culturing grade 4 embryos (containing 2-4 blastomeres and with >50% fragmentation) 68 h after fertilization to the blastocyst stage. Embryos were co-cultured with buffalo rat liver (BRL) cells in Menezes's B2 medium with or without 10% v/v synthetic serum substitute (SSS), co-cultured with BRL cells in KSOM with or without 10% SSS, or cultured in KSOM with 100 nM heparin binding epidermal growth factor. The most consistent development was obtained when embryos were co-cultured with BRL cells in KSOM. Rates of the blastocyst stage were between 27% and 40%. After reaching the blastocyst stage, continued culture of these blastocysts was only possible in a medium ***without*** ***serum***. In a serum-deprived medium cells attached and showed initial outgrowth, but did not survive passaging. Using another approach, inner cell masses (ICMs), isolated from blastocysts with high efficiency using immunosurgery, were able to attach to a feeder layer in the presence of serum. Some ICMs differentiated

whereas others could be successfully passaged up to four times. The embryonic cells were morphologically different from murine ***embryonic*** ***stem*** cells. Instead of well-defined colonies, the human colonies were characterized by individual cells and without defined borders.

L8 ANSWER 3 OF 3 MEDLINE DUPLICATE 3
AN 96193920 MEDLINE
DN 96193920
TI Role of retinoic acid and oxidative stress in ***embryonic*** ***stem*** cell death and neuronal differentiation.
AU Castro-Oregon S; Covarrubias L
CS Departamento de Genética y Fisiología Molecular, Instituto de Biotecnología, UNAM, Cuernavaca, Mexico.
SO FEBS LETTERS, (1996 Feb 26) 381 (1-2) 93-7.
Journal code: EUH. ISSN: 0014-5793.

CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
EM 199609
AB ***Embryonic*** ***stem*** (ES) cells are a suitable system to study events occurring during development. In the present work we show that the apoptotic program was activated in ES cells, either by removal of the reducing agent 2-mercaptoethanol (2-ME), or by addition of all trans-retinoic (ATRA) to embryoid bodies. In these two conditions, there was an increase in reactive oxygen species and antioxidants such as catalase, superoxide dismutase or phenol prevented ATRA-induced cell death. Neuronal differentiation was observed when undifferentiated cells were treated with ATRA in the ***absence*** of ***serum*** and the presence of 2-ME.

=> d his

(FILE 'HOME' ENTERED AT 09:04:49 ON 29 FEB 2000)

FILE MEDLINE ENTERED AT 09:04:54 ON 29 FEB 2000
L1 5870 S SERUM FREE MEDIA OR SERUM FREE MEDIUM/AB,BI
L2 248 S L1 AND EMBRYONIC/AB,BI
L3 2 S L1 AND EMBRYONIC STEM/AB,BI

FILE MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS'

ENTERED AT 09:07:07 ON 29 FEB 2000

L4 15 S L3
L5 8 DUP REM L4 (7 DUPLICATES REMOVED)
L6 9506 S WITHOUT SERUM OR (ABSENCE (2A) SERUM)/AB,BI
L7 10 S L6 AND EMBRYONIC STEM/AB,BI
L8 3 DUP REM L7 (7 DUPLICATES REMOVED)

=> file stnguide

COST IN U.S. DOLLARS	ENTRY	SINCE FILE	TOTAL
FULL ESTIMATED COST	50.74	52.47	

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL

CA SUBSCRIBER PRICE	ENTRY	SESSION	
	-1.11	-1.11	

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Feb 25, 2000 (20000225/UP).

=> file medline embase biosis inpadoc caplus

COST IN U.S. DOLLARS	ENTRY	SINCE FILE	TOTAL
FULL ESTIMATED COST	0.00	52.47	

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
SINCE FILE TOTAL

CA SUBSCRIBER PRICE	ENTRY	SESSION	
	0.00	-1.11	

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FILE 'EMBASE' ENTERED AT 09:14:45 ON 29 FEB 2000
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FILE 'INPADOC' ENTERED AT 09:14:45 ON 29 FEB 2000
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FILE 'CAPLUS' ENTERED AT 09:14:45 ON 29 FEB 2000
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=> e price paul/au

E1 3 PRICE PAULI J/AU
E2 2 PRICE PAULI JO/AU
E3 18 -> PRICE PAUL/AU
E4 144 PRICE PAUL A/AU
E5 1 PRICE PAUL ARMS/AU
E6 8 PRICE PAUL B/AU
E7 26 PRICE PAUL BUFORD/AU
E8 2 PRICE PAUL BULFORD/AU
E9 4 PRICE PAUL C/AU
E10 1 PRICE PAUL D/AU
E11 1 PRICE PAUL F/AU
E12 1 PRICE PAUL J/AU

=> s e3

L9 18 PRICE PAUL J/AU

=> e price paul j/au

E1 1 PRICE PAUL F/AU
E2 1 PRICE PAUL J/AU
E3 54 -> PRICE PAUL J/AU
E4 3 PRICE PAUL JOHN/AU
E5 8 PRICE PAUL S/AU
E6 4 PRICE PAUL W/AU
E7 1 PRICE PAUL WILLIAM JR/AU
E8 2 PRICE PAUL A/AU
E9 1 PRICE PAUL A/AU
E10 1 PRICE PEGGY S/AU
E11 1 PRICE PERIN L/AU
E12 22 PRICE PETER/AU

=> s e3-e4

L10 57 PRICE PAUL J/AU OR PRICE PAUL JOHN/AU

=> s 19 or 110

L11 75 L9 OR L10

=> e goldsborough mindy d/au

E1 2 GOLDSBOROUGH MAURA/AU
E2 12 GOLDSBOROUGH MAURA A/AU
E3 9 -> GOLDSBOROUGH MINDY D/AU
E4 1 GOLDSBOROUGH MINDY DAVIS/AU
E5 1 GOLDSBOROUGH PETER B/AU
E6 12 GOLDSBOROUGH R/AU
E7 3 GOLDSBOROUGH ROBERT J/AU
E8 3 GOLDSBOROUGH ROBERT R/AU
E9 7 GOLDSBOROUGH S/AU
E10 1 GOLDSBOROUGH S J/AU
E11 1 GOLDSBOROUGH STANLEY D/AU

E12 1 GOLDSBOROUGH W J/AU

=> s e3-e4

L12 10 ("GOLDSBOROUGH MINDY D"/AU OR
"GOLDSBOROUGH MINDY DAVIS"/AU)

=> e tilkins mary lyn/au

E1 1 TILKINS M J/AU
E2 4 TILKINS M J/AU
E3 9 -> TILKINS MARY L YNN/AU
E4 2 TILKIOGLU N/AU
E5 1 TILKIYAN E/AU
E6 3 TILKIYAN VLADIMIR G/AU
E7 1 TILKKI H/AU
E8 2 TILKORN A/AU
E9 3 TILKORN A C/AU
E10 3 TILKORN ANNE/AU
E11 5 TILKORN ANNE CHRISTINE/AU
E12 23 TILKORN H/AU

=> s e2-e3

L13 13 ("TILKINS M L"/AU OR "TILKINS MARY
LYNN"/AU)

=> d his

(FILE 'HOME' ENTERED AT 09:04:49 ON 29 FEB 2000)

FILE 'MEDLINE' ENTERED AT 09:04:54 ON 29 FEB 2000
L1 5870 S SERUM FREE MEDIA OR SERUM FREE
MEDIUM/AB.BI
L2 248 S L1 AND EMBRYONIC/AB.BI
L3 2 S L1 AND EMBRYONIC STEM/AB.BI

FILE 'MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS'
ENTERED AT 09:07:07 ON 29
FEB 2000

L4 15 S L3
L5 8 DUP REM L4 (7 DUPLICATES REMOVED)
L6 9506 S WITHOUT SERUM OR (ABSENCE (2A)
SERUM)/AB.BI
L7 10 S L6 AND EMBRYONIC STEM/AB.BI
L8 3 DUP REM L7 (7 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 09:13:00 ON 29 FEB 2000

FILE 'MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS'
ENTERED AT 09:14:45 ON 29
FEB 2000

E PRICE PAUL/AU
L9 18 S E3
E PRICE PAUL J/AU
L10 57 S E3-E4

L11 75 S L9 OR L10
E GOLDSBOROUGH MINDY D/AU

L12 10 S E3-E4
E TILKINS MARY LYNN/AU

L13 13 S E2-E3

=> s (11 or 16) and (111 or 112 or 113)

'AB' IS NOT A VALID FIELD CODE
'AB' IS NOT A VALID FIELD CODE
L14 11 (L1 OR L6) AND (L11 OR L12 OR L13)

=> dup rem 114

PROCESSING COMPLETED FOR L14
L15 10 DUP REM L14 (1 DUPLICATE REMOVED)

=> d 1 - bib ab

YOU HAVE REQUESTED DATA FROM 10 ANSWERS -
CONTINUE? Y(N)?

L15 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2000 ACS
AN 1998:114727 CAPLUS

DN 128:179429

T1 Recombinant protein production by CHO cells cultured in a
chemically defined medium

AU Gorfien, Stephen F.; Dzianian, Joyce L.; ***Tilkins, Mary
Lynn***;

Godwin, Glenn P.; Fike, Richard

CS Life Technologies, Inc., Grand Island, NY, 14072, USA

SO Anim. Cell Technol.: Basic Appl. Aspects, Proc. Annu. Meet.
Jpn. Assoc.

Anim. Cell Technol., 9th (1998), Meeting Date 1996, 247-252.

Editor(s):

Nagai, Kazuo; Wachi, Masaaki. Publisher: Kluwer, Dordrecht,
Neth.

CODEN: 65RGAA

DT Conference

LA English

AB Serum-free culture of chinese hamster ovary (CHO) cells has
become

increasingly common as a way of obtaining high levels of
expression of

recombinant proteins while simplifying recovery and downstream
processing

of the product. However, ***serum*** . ***free***
media

may still contain one or more of a variety of animal-derived
components

including albumin, fetuin, various hormones and other proteins.
We have

demonstrated that it is possible to eliminate animal-derived
proteins from

a CHO medium formulation. Plasma protein fractions like albumin

- and
fetus may be replaced by plant-derived hydrolyzates, resulting in medium that is protein-free but still undefined (CHO III PFM). CD CHO Medium is a chem. defined formulation which contains no protein or hydrolyzates of either plant or animal origin. Peak cell densities and recombinant protein expression in CD CHO cultures compared favorably to expression in other media, although the maximal cell d. and the highest levels of expression were obsd. at later time points. We were able to successfully supplement the culture with sodium butyrate to increase expression levels at the expense of peak cell d., so for recombinant cell lines showing an inverse relationship between growth and expression of recombinant product, strategies which limit the peak cell d. may be useful for increasing expression.
- L15 ANSWER 2 OF 10 BIOSIS COPYRIGHT 2000 BIOSIS
DUPLICATE 1
AN 1998:13258 BIOSIS
DN PREV19980013258
TI Retention of xenobiotic-inducible cytochrome P450 gene expression in hepatocytes.
AU ***Price, Paul J. (1)*** ; Samrock, Roxanne L.; Lobo-Alfonso, Juliet O.; Green, Carol E.
CS (1) Life Technol. Inc., 3175 Staley Rd., Grand Island, NY 14072 USA
SO In Vitro Toxicology, (Fall, 1997) Vol. 10, No. 3, pp. 365-371.
ISSN: 0888-319X
DT Article
LA English
AB A serum-free formulation has been developed for the long-term maintenance of xenobiotic-inducible cytochrome P450 expression of hepatocytes in vitro. Purified rat or human hepatocytes were cultured in either serum-containing or ***serum*** - ***free***
media for 10-14 days on either a collagen:collagen sandwich or collagen:Matrigel matrix. The cultures were then evaluated for cytochrome P450 activity using two different enzyme substrates. In both culture systems, the serum-free formulation proved to be clearly superior to the control (serum-supplemented Williams E with the rat hepatocytes and a Weymouths 7521 based ***serum*** - ***free***
medium with the human hepatocytes). This paper also addresses the choice of the basal formulation for the SFM and the reasons for the choice of
- components that are supplemented into the medium.
L15 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2000 ACS
AN 1996:690982 CAPLUS
DN 126:17853
TI Serum-free culture of human venous, arterial, and microvascular endothelial cells using a low-protein, ***serum*** - ***free***
medium
AU Batista, Paul J.; Soderland, Carl; ***Tilkins, Mary Lynn*** ; Gorfien, Stephen F.
CS Cell Culture Research and Development Dept., Life Technologies, Inc., Grand Island, NY, 14072, USA
SO Am. Biotechnol. Lab. (1996), 14(11), 34,36-37
CODEN: ABLAEY; ISSN: 0749-3223
PB International Scientific Communications
DT Journal
LA English
AB The use of Human Endothelial-SFM, a low-protein, ***serum*** - ***medium*** (SFM) formulated to support the isolation and long-term culture of human endothelial cells was described. Cells cultured in this medium demonstrate growth characteristics and retention of physiol. markers similar to cells cultured in traditional serum and growth factor-supplemented culture medium.
L15 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2000 ACS
AN 1995:621945 CAPLUS
DN 123:54196
TI Anchorage-dependent growth and recombinant protein production by Chinese hamster ovary cells in ***serum*** - ***free***
medium
AU Batista, Paul J.; ***Tilkins, Mary Lynn*** ; Jayme, David W.; Gorfien, Stephen F.
CS GIBCO BRL/Life Technologies, Inc., Grand Island, NY, USA
SO Anim. Cell Technol.: Basic Appl. Aspects, Proc. Int. Meet. Jpn. Assoc. Anim. Cell Technol., 6th (1994), Meeting Date 1993, 325-9.
Editor(s): Kobayashi, Takeshi; Kitagawa, Yasuo; Okumura, Katsuzumi.
Publisher: Kluwer, Dordrecht, Neth.
CODEN: 61NMAE
DT Conference
LA English
AB Chinese hamster ovary (CHO) cells are commonly used for the prodn. of recombinant proteins owing to the ability of these cells to stably maintain the expression of foreign gene products which structurally
- and functionally resemble the naturally occurring human proteins.
Serum-free culture of CHO cells is desirable since it facilitates downstream processing and recovery of products and minimizes problems assoc. with serum usage, such as lot-to-lot performance variability, presence of adventitious agents, and fluctuations in price and availability. The authors previously developed several ***serum*** - ***free***
media (SFM) formulations which support anchorage-independent growth and protein expression of CHO cells. While suspension culture of CHO cells is now an accepted method, there are many applications for which anchorage-dependent culture is desirable. Use of SFM optimized for suspension culture may result in suboptimal performance when used in anchorage-dependent culture systems. A recently developed prototype formulation, designated Adherent CHO-SFM, has been specifically formulated to support growth and recombinant protein prodn. using anchorage-dependent culture systems. This medium contains no bovine-derived components and has protein and endotoxin concns. of 100 µg/mL and 1.0 EU/mL, resp. The utility of this formulation has been demonstrated using small and larger-scale anchorage-dependent cell culture systems including tissue culture flasks, roller bottles, microcarriers and artificial capillary units. Cells cultured in Adherent CHO-SFM demonstrated biol. performance which was superior to that obtained with serum-supplemented medium. Development of Adherent CHO-SFM complements our existing options for serum-free culture of CHO cells and offers the end user greater flexibility in choosing an appropriate cell culture system.
L15 ANSWER 5 OF 10 MEDLINE
AN 94220266 MEDLINE
DN 94220266
TI ***Serum*** - ***free***
media for the culture of Chinese hamster ovary cells.
AU Battista P J; ***Tilkins M L*** ; Judd D A; Godwin G P; Gorfien S F
CS GIBCO BRL/Life Technologies, Inc., Grand Island, NY 14072.
SO AMERICAN BIOTECHNOLOGY LABORATORY, (1994 Apr) 12 (5) 64, 66, 68.
Journal code: ALA. ISSN: 0749-3223.
CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS B
EM 199408

L15 ANSWER 6 OF 10 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1994:98369 BIOSIS
DN PREV199497111369
TI ***Serum*** - ***free*** ***medium*** for the growth
and
recombinant protein production of anchorage-dependent Chinese
hamster
ovary cells.
AU ***Tilkins, M.L.***; Battista, P. J.; Gorfien, S. F.
CS GIBCO BRL/Life Technologies Inc., Cell Culture R and D, 2086
Grand Island
Bld., Grand Island, NY 14072 USA
SO Molecular Biology of the Cell, (1993) Vol. 4, No. SUPPL., pp.
335A.
Meeting Info.: Thirty-third Annual Meeting of the American
Society for
Cell Biology New Orleans, Louisiana, USA December 11-15, 1993
ISSN: 1059-1524.
DT Conference
LA English

L15 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2000 ACS
AN 1994:55863 CAPLUS
DN 121:15863
TI Chinese hamster ovary (CHO) cell growth and recombinant
protein production
in ***serum*** - ***free*** ***media***
AU Battista, Paul J.; ***Tilkins, Mary Lynn***; Judd, David A.;
Gorfien,
Stephen F.; Jayme, David W.
CS GIBCO BRL/Life Technol. Inc., Grand Island, NY, 14072, USA
SO Anim. Cell Technol.: Basic Appl. Aspects, Proc. Int. Meet. Jpn.
Assoc.
Anim. Cell Technol., 5th (1993), Meeting Date 1992, 251-7.
Editor(s):
Kaminogawa, Shuichi; Anetani, Akio; Hachimura, Satoshi
Publisher: Kluwer,
Dordrecht, Neth.
CODEN: 60AEAM
DT Conference
LA English
AB CHO cells have become increasingly important for recombinant
gene
expression, owing to their low rate of spontaneous transformation
and
biomannuf. of recombinant products that structurally and functionally
resemble the native mols. The authors recently developed a low
protein
($<100 \mu\text{g/mL}$), low endotoxin ($<0.25 \text{ EU/mL}$) ***serum*** -
free
medium (CHO-S-SFM II) formulated to support the
growth of CHO

cells and the prodn. of recombinant proteins in suspension culture.
Both
wild type and recombinant CHO cells were adapted, maintained,
cryopreserved and recovered in CHO-S-SFM II. Cells cultured in
this
serum - ***free*** ***medium*** out-perform
parallel
cultures in serum-supplemented medium, reaching peak densities
of
3-4 times 106 viable cells/mL and producing over 1.0 $\mu\text{g/mL}$ of
recombinant human chorionic gonadotropin. CHO-S-SFM II
demonstrated
superior growth performance compared to four com.
serum - ***media*** for CHO cells. A prototype powd.
form of
CHO-S-SFM II exhibited performance equiv. to liq. medium.
Serum
- ***free*** ***medium*** eliminates problems assoc.
with serum
usage, such as lot-to-lot performance variability, presence of
adventitious agents and fluctuations in price and availability. The
low
protein content of CHO-S-SFM II facilitates downstream
processing of
recombinant proteins and reduces final product cost. Addnl., the
low
endotoxin level of this medium reduces regulatory concerns for the
prodn.
of therapeutic proteins.

L15 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2000 ACS
AN 1994:430326 CAPLUS
DN 121:30326
TI Sustained inducibility of cytochrome P450 activity in rat
hepatocytes
cultured in a ***serum*** - ***free*** ***medium***
AU Lobo, Juliet O.; Samrock, Roxanne L.; Jayme, David W.;
Price, Paul
*** J***
CS GIBCO BRL/Life Technol. Inc., Grand Island, NY, 14072, USA
SO Anim. Cell Technol.: Basic Appl. Aspects, Proc. Int. Meet. Jpn.
Assoc.
Anim. Cell Technol., 5th (1993), Meeting Date 1992, 195-201.
Editor(s):
Kaminogawa, Shuichi; Anetani, Akio; Hachimura, Satoshi.
Publisher: Kluwer,
Dordrecht, Neth.
CODEN: 60AEAM
DT Conference
LA English
AB Liver microsomal oxygenases are multicomponent enzyme
systems which
metabolize a wide variety of xenobiotics. A major component of
the system
is a group of enzymes collectively known as cytochrome P 450
(CP450). A

major limitation in the use of rodent hepatocyte cultures in toxicity
testing and pharmacokinetic studies has been the rapid loss of phase
1
reactions catalyzed by the CP450-dependent mono-oxygenases.

Using a
sandwich matrix and a ***serum*** - ***free***
medium
developed by GIBCO, total rat CP450 could be maintained for at
least 9
days at 75-80% day "0" levels. Metabolic studies of the
microsomal
fraction of primary adult rat hepatocytes, measured by the
conversion of
7-ethoxycoumarin to 7-hydroxycoumarin and of
3,4-benzo-[a]-pyrene to
3-hydroxybenzo-[a]-pyrene, demonstrated maintenance of activity
over the
same 9 days comparable to the "0" time controls.

L15 ANSWER 9 OF 10 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1993:38374 BIOSIS
DN PREV199344015224
TI ***Serum*** - ***free*** ***medium*** options for
chinese
hamster ovary (CHO) cell culture.
AU ***Tilkins, M.L. (1)***; Judd, D. (1); Weiss, S. (1); Boime,
I.;
Pridley, M.; Gorfien, S. F. (1)
CS (1) GIBCO/Life Technologies Inc., Cell Culture R and D, 2086
Grand Island
Bld., Grand Island, N.Y. 14072
SO Molecular Biology of the Cell, (1992) Vol. 3, No. SUPPL., pp.
187A.
Meeting Info.: Thirty-second Annual Meeting of the American
Society for
Cell Biology, Denver, Colorado, USA, November 15-19, 1992.
MOL BIOL CELL
ISSN: 1059-1524.
DT Conference
LA English

L15 ANSWER 10 OF 10 BIOSIS COPYRIGHT 2000 BIOSIS
AN 1992:88805 BIOSIS
DN BR42:41080
TI GROWTH AND RDNA PROTEIN PRODUCTION IN AN
IMPROVED ***SERUM*** -
FREE ***MEDIUM*** FORMULATION.
AU GORFEN S F; ***TILKINS M L***; JUDD D; BOIME I;
PIXLEY M; WEISS S A
CS GIBCO/LTI, GRAND ISLAND, N.Y.
SO ABSTRACTS OF PAPERS PRESENTED AT THE
THIRTY-FIRST ANNUAL MEETING OF THE
AMERICAN SOCIETY FOR CELL BIOLOGY, BOSTON,
MASSACHUSETTS, USA, DECEMBER
8-12, 1991. J CELL BIOL. (1991) 115 (3 PART 2), 358A.
CODEN: JCLBA3 ISSN: 0021-9525.
DT Conference

FS BR: OLD
LA English

=> d his

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FILE 'MEDLINE' ENTERED AT 09:04:54 ON 29 FEB 2000
L1 5870 S SERUM FREE MEDIA OR SERUM FREE
MEDIUM/AB,BI
L2 248 S L1 AND EMBRYONIC/AB,BI
L3 2 S L1 AND EMBRYONIC STEM/AB,BI

FILE 'MEDLINE, EMBASE, BIOSIS, INFADOC, CAPLUS'
ENTERED AT 09:07:07 ON 29
FEB 2000
L4 15 S L3
L5 8 DUP REM L4 (7 DUPLICATES REMOVED)
L6 9506 S WITHOUT SERUM OR (ABSENCE (2A)
SERUM/AB,BI
L7 10 S L6 AND EMBRYONIC STEM/AB,BI
L8 3 DUP REM L7 (7 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 09:13:00 ON 29 FEB 2000

FILE 'MEDLINE, EMBASE, BIOSIS, INFADOC, CAPLUS'
ENTERED AT 09:14:45 ON 29
FEB 2000

L9 E PRICE PAUL/AU
18 S E3
E PRICE PAUL J/AU
L10 57 S E3-E4
L11 75 S L9 OR L10
E GOLDSBOROUGH MINDY D/AU
L12 10 S E3-E4
E TILKINS MARY LYNN/AU
L13 13 S E2-E3
L14 11 S (L1 OR L6) AND (L11 OR L12 OR L13)
L15 10 DUP REM L14 (1 DUPLICATE REMOVED)

=>

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FULL ESTIMATED COST	42.97	SESSION	95.44

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Queries 1 through 25.

S #	Comment	Database	Query String	Delete?
S25	<input type="text"/>	ALL	tilkins-mary\$.in.	<input type="checkbox"/>
S24	<input type="text"/>	ALL	(price-paul\$.in.) and (serum adj1 free)	<input type="checkbox"/>
S23	<input type="text"/>	ALL	price-paul\$.in.	<input type="checkbox"/>
S22	<input type="text"/>	ALL	goldsbrough-mindy\$.in.	<input type="checkbox"/>
S21	<input type="text"/>	USPT	goldsbrough-mindy\$.in.	<input type="checkbox"/>
S20	<input type="text"/>	USPT	embryonic adj10 (serum adj1 free)	<input type="checkbox"/>
S19	<input type="text"/>	USPT	(((((435/69.1, 325, 374, 375, 377, 395, 404, 405, 406, 407, 455).ccls.) or (536/23.1.ccls.)) and (embryonic adj1 stem)) and (serum adj1 free)) and (media or medium)	<input type="checkbox"/>
S18	<input type="text"/>	USPT	serum adj1 free	<input type="checkbox"/>
S17	<input type="text"/>	USPT	(((((435/69.1, 325, 374, 375, 377, 395, 404, 405, 406, 407, 455).ccls.) or (536/23.1.ccls.)) and (embryonic adj1 stem)) and (serum adj1 free)	<input type="checkbox"/>
S16	<input type="text"/>	USPT	((((435/69.1, 325, 374, 375, 377, 395, 404, 405, 406, 407, 455).ccls.) or (536/23.1.ccls.)) and (embryonic adj1 stem)	<input type="checkbox"/>
S15	<input type="text"/>	USPT	((435/69.1, 325, 374, 375, 377, 395, 404, 405, 406, 407, 455).ccls.) or (536/23.1.ccls.)	<input type="checkbox"/>
S14	<input type="text"/>	USPT	536/23.1.ccls.	<input type="checkbox"/>
S13	<input type="text"/>	USPT	(435/69.1, 325, 374, 375, 377, 395, 404, 405, 406, 407, 455).ccls.	<input type="checkbox"/>
S12	<input type="text"/>	ALL	(plant\$1 near10 (pectinase or pectin adj1 lyase or pectolyase or polygalacturonase)) and (cosmetic\$ or topical\$2)	<input type="checkbox"/>

S11	<input type="text"/>	ALL	plant\$1 near10 (pectinase or pectin adj1 lyase or pectolyase or polygalacturonase)	<input type="checkbox"/>
S10	<input type="text"/>	ALL	plant\$1 and (pectinase or pectin adj1 lyase or pectolyase or polygalacturonase)	<input type="checkbox"/>
S9	<input type="text"/>	USPT	culture.clm. and kit.clm. and cell\$1.clm. and container\$1.clm.	<input type="checkbox"/>
S8	<input type="text"/>	USPT	culture.clm. and kit.clm. and cell\$1.clm.	<input type="checkbox"/>
S7	<input type="text"/>	USPT	culture.clm. and kit.clm.	<input type="checkbox"/>
S6	<input type="text"/>	USPT	((435/404.ccls.) and (kit\$1 or product\$1)) and embryonic	<input type="checkbox"/>
S5	<input type="text"/>	USPT	(435/404.ccls.) and kit.clm.	<input type="checkbox"/>
S4	<input type="text"/>	USPT	((435/404.ccls.) and (kit\$1 or product\$1)) and cell\$1	<input type="checkbox"/>
S3	<input type="text"/>	USPT	(435/404.ccls.) and (kit\$1 or product\$1)	<input type="checkbox"/>
S2	<input type="text"/>	USPT	(435/404.ccls.) and (kit\$1 or product\$)	<input type="checkbox"/>
S1	<input type="text"/>	USPT	435/404.ccls.	<input type="checkbox"/>